

**Olefin polymerization catalysts, transition metal compounds, processes for olefin polymerization, and Alpha-olefin/conjugated diene copolymers**

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**Abstract**

The invention provides olefin polymerization catalyst exhibiting excellent polymerization activities, a process for olefin polymerization using the catalyst, a novel transition metal compound useful for the catalyst, and an alpha -olefin/conjugated diene copolymer having specific properties. The olefin polymerization catalyst of the invention comprises (A) a transition metal compound of formula (I) or (II), and (B) an organometallic compound, an organoaluminum oxy-compound or an ionizing ionic compound. The novel transition metal compound of the invention is a compound of formula (I) wherein M is a transition metal atom of Group 3 or 4 of the periodic table; m is an integer of 1 to 3; R<1> is a hydrocarbon group, etc.; R<2> to R<5> are each H, a halogen, a hydrocarbon group, etc.; R<6> is a halogen, a hydrocarbon group, etc.; n is a number satisfying a valence of M; and X is a halogen, a hydrocarbon group, etc.

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